AMENDMENTS TO THE CLAIMS

The following listing of claims replaces all prior versions and listings thereof.

Please cancel Claim 3.

Please amend Claims 1 and 5 as in the attached marked-up copy to read as follows:

1. (Previously Amended) A multilayer ultrathin film which comprises layers consisting essentially of polymer layers and layers of lamina particles alternately assembled, said lamina particles being obtained by exfoliating microcrystals of a layered titanium oxide, a film thickness of the layers being controlled within a range of from sub-nm to nm.

2. (Original) The ultrathin film according to Claim 1, wherein the lamina particles are titania nanosheets having a compositional formula of $Ti_{1-\delta}$ O_2 ($0 \le \delta \le 0.5$).

Claim 3: (Canceled).

- 4. (Original) The ultrathin film according to Claim 1, which absorbs ultraviolet light having a wavelength of at most 300 nm with a high efficiency.
- 5. (Previously Amended) A method for producing the titania ultrathin film as defined in Claim 1, which comprises repeatedly soaking a substrate alternately in a sol having titania nanosheets suspended and in a cationic polymer solution so that the nanosheets and the polymer are adsorbed on the substrate each in a thickness of from sub-nm to nm level to form a multilayer having said components alternately accumulated.

6. (Previously Added) The ultrathin film according to Claim 1, wherein the film thickness of the layers is from 0.5 nm to 2 nm.



- 7. (Previously Added) The ultrathin film according to Claim 1, wherein the film thickness of the layers is 1 nm.
- 8. (Previously Added) The ultrathin film according to Claim 2, wherein said titania nanosheets are derived from layered titanium oxide.
- 9. (Previously Added) The method according to Claim 5, wherein a film thickness of the layers is from 0.5 nm to 2 nm.
- 10. (Previously Added) The method according to Claim 9, wherein a film thickness of the layers is 1 nm.
- 11. (Previously Added) The method according to Claim 5, wherein the concentration of the titania is at most 5 wt.%

Claim 12: (Canceled).

13. (Previously Added) The method according to Claim 5, wherein the pH is at least 5.

Claims 14-16: (Canceled)

- 17. (New) The ultrathin film according to Claim 1, which is in contact with a substrate selected from the group consisting of quartz glass plate, Si wafer, mica plate, graphite plate and alumina plate.
- 18. (New) The ultrathin film according to Claim 1, wherein the layered titanium oxide is selected from the group consisting of lepidocrocite titanate, trititanate, tetratitanate and pentatitanate.
- 19. (New) The ultrathin film according to Claim 1, wherein the layered titanium oxide is selected from the group consisting of $Cs_xTi_{2-x/4}O_4$ wherein $0.5 \le x \le 1$; $A_xTi_{2-x/3}Li_{x/3}O_4$ wherein A = K, Rb or Cs and $0.5 \le x \le 1$; $Na_2Ti_3O_7$; $K_2Ti_4O_9$ and $Cs_2Ti_5O_{11}$.
- 20. (New) The ultrathin film according to Claim 1, wherein the polymer layers comprise one or more polymers selected from the group consisting of polydimethyldiallyl ammonium chloride, polyethyleneimine, and polyallylamine hydrochloride.